

~~filter array in the triplet thereby constituting an OLED-Color filter array set. In this second arrangement, each color filter array in each triplet has elements that are capable of transmitting radiation in a distinct wavelength range different from the distinct wavelength range of the other two arrays in the triplet.~~

### **ABSTRACT**

A compact light weight printhead capable of direct quasi-contact printing includes an OLED-Color Filter structure deposited onto a substrate. The OLED-Color Filter structure includes an OLED structure emitting over a broad range of wavelengths and color filter arrays that selectively transmit radiation in different distinct ranges of wavelengths. The printhead is designed for contact or quasi-contact printing, without additional optical elements. The printhead design ensures that the desired pixel sharpness and reduced crosstalk is achieved.--